

**Production - Natural Gas STAR Annual Report - 2007**

**Company Information**

Company Name: Southwestern Energy Company  
Gas STAR Contact: Keith Jordan  
Title HS&E Coordinator  
Address: 23 Nabco Avenue  
  
City: Conway  
State: AR  
Zip: 72032  
Phone: (501) 548-6561  
Fax:  
E-mail: keith\_jordan@swn.com

Natural Gas

rcv'd  
4/21/08

Company Information Updated: No

**Activities Reported**

BMP1: No BMP2: Yes BMP3: Yes

Total Methane Emission Reductions Reported This Year: 94,950 ✓

Previous Years' Activities Reported: No

**Period Covered by Report**

From: 01/01/2007

To: 12/31/2007

**Additional Comments**

☒ Access 4/23/08  
EB  
☒ iSTAR 4/23/08  
EB  
☒ QA/QC 6/9/08  
DF

April 22, 2008

BMP2: Install Flash Tank Separators on Glycol Dehydrators

**Current Year Activities**

**A. Facility/location identifier information:**

Company Wide

**B. Facility Summary**

Number of flash tank separators installed this reporting period: 24 separators ✓

Percent of dehydrators in system equipped with flash tank separators: ~~100~~ %

**C. Cost Summary**

Estimated cost per flash tank separator replacement (including equipment and labor): \$ ~~1000~~

**D. Methane Emissions Reduction**

Method Used: Other

Data Source: Not Applicable

Methane Emissions Reduction: 45,408 Mcf/year ✓

**E. Are these emissions reductions a one-year reduction or a multi-year reduction?**

One-year ☒ Multi-year ☒

If Multi-year: ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration (BMP 2 has a sunset period of 7 years).  
Partner will report this activity annually up to allowed sunset date.

**F. Total Value of Gas Saved**

Value of Gas Saved: \$ 317,856 ✓

\$ / Mcf used: \$7.00

**G. Planned Future Activities**

Number of flash tank separators to be installed next year: ~~10~~ separators

**Previous Years' Activities**

Year	# Separators Installed	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
2006	24	24,000	45,408	317,856
2005	24	24,000	45,408	317,856
2004	24	24,000	45,408	317,856
2003	24	24,000	45,408	317,856
2002	24	24,000	45,408	317,856

\* Total cost of replacements (including equipment and labor)

Additional Comments

BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Company Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Automate systems operation to reduce venting ✓

Please describe how your company implemented this PRO:

The PRO is implemented in the design phase of new compressor installations. ✓

C. Level of Implementation

Number of units installed: 52 units ✓

D. Methane Emissions Reduction

Methane Emissions Reduction: 41,808 Mcf/year ✓

Basis for the emissions reduction estimate: Other

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration (BMP 3 has a sunset period of 7 years).

Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ ~~0~~

**G. Total Value of Gas Saved**

Value of Gas Saved: \$ 292,656 ✓

\$ / Mcf used: \$ 7.00

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: ~~0~~

**Previous Years' Activities**

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

**Additional Comments**

BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Company Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Automated air/fuel ratio controls (10 years)

Please describe how your company implemented this PRO:

Implimented in the design phase of new compressor engines. ✓

C. Level of Implementation

Number of units installed: 66 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 7,370 Mcf/year ✓

Basis for the emissions reduction estimate: Other ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

- ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration (BMP 3 has a sunset period of 7 years).

Partner will report this activity annually up to allowed sunset date.

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### F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor):

\$ 

### G. Total Value of Gas Saved

Value of Gas Saved: \$ 51,590 ✓

\$ / Mcf used: \$ 7.00

### H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: Will continue to impliment in the design phase of new compressor engines.

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

Additional Comments

BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Company Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Convert gas-driven chemical pumps to electric, mechanical, or solar ✓

Please describe how your company implemented this PRO:

Install solar powered pumps on new chemical treatment applications ✓

C. Level of Implementation

Frequency of activity or practice: 72 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 194 Mcf/year ✓

Basis for the emissions reduction estimate: Other ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

1 year.

✓ One-year

Multi-year


If Multi-years:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration (BMP 3 has a sunset period of 7 years).

Partner will report this activity annually up to allowed sunset date.

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### F. Cost Summary


Estimated cost of implementing the PRO (including equipment and labor): \$ 

### G. Total Value of Gas Saved

Value of Gas Saved: \$ 1,358 ✓

\$ / Mcf used: \$ 7.00

### H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: 

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

Additional Comments



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### BMP3: Partner Reported Opportunities (PROs)

#### Current Year Activities

##### A. Facility/location identifier information:

Company Wide

##### B. Description of PRO

Please specify the technology or practice that was implemented:

Installing plunger lift systems at gas wells (10 years) ✓

Please describe how your company implemented this PRO:

Implimented as needed. ✓

##### C. Level of Implementation

Number of units installed: 85 units ✓

##### D. Methane Emissions Reduction

Methane Emissions Reduction: 170 Mcf/year ✓

Basis for the emissions reduction estimate: Other

##### E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

##### If Multi-year:

- ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration (BMP 3 has a sunset period of 7 years).

Partner will report this activity annually up to allowed sunset date.

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### F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ ~~0~~

### G. Total Value of Gas Saved

Value of Gas Saved: \$ 1,190 ✓

\$ / Mcf used: \$ 7.00

### H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: ~~0~~

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

Additional Comments

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Southwestern Energy Company  
Additional Accomplishments

April 22, 2008